

SUBSTITUTE SHEET (RULE 26)

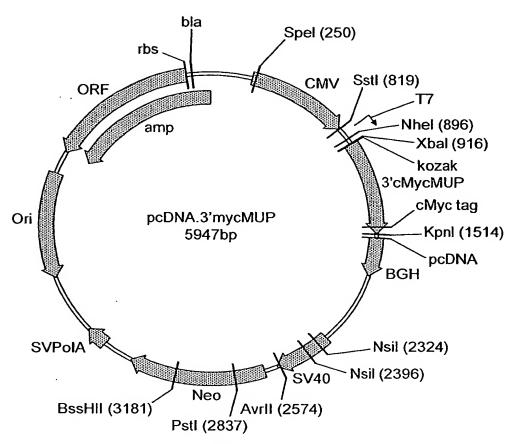
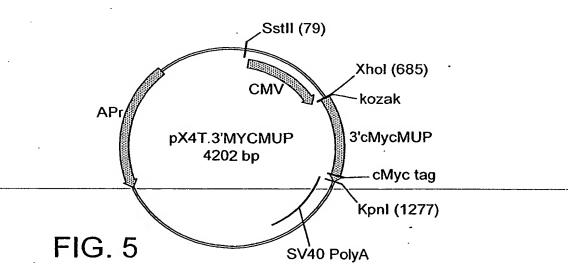
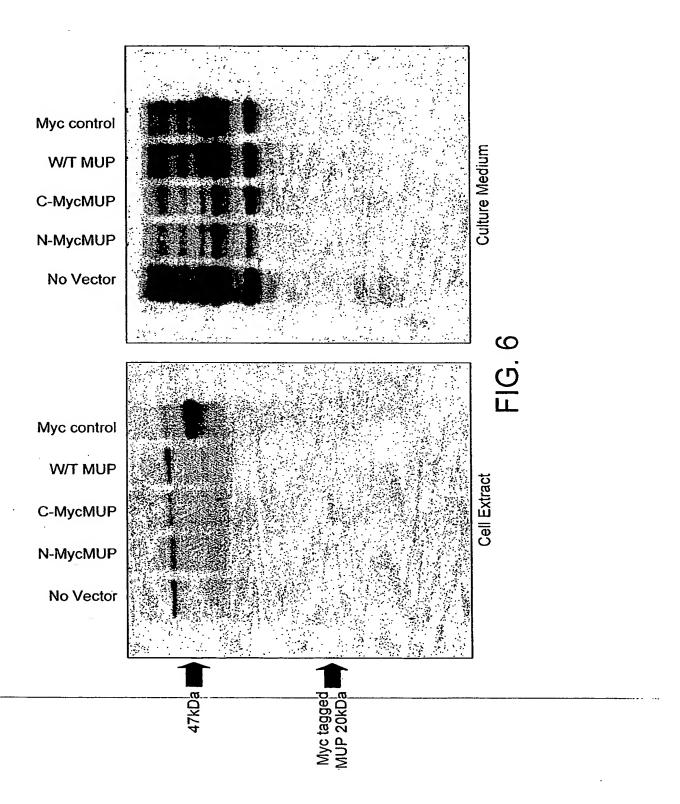


FIG. 4





MetLysMetLeuLeuLeuCysLeuGlyLeuThrLeuValCysValHisAlaGluGlu ATGAAGATGCTGCTGCTGTTTTGGGACTGACCCTAGTCTGTGTCCATGCAGAAGAA AlaSerSerThrGlyArgAsnPheAsnValGluLysIleAsnGlyGluTrpHisThrIle 61 GCTAGTTCTACGGGAAGGAACTTTAATGTAGAAAAGATTAATGGGGAATGGCATACTATT IleLeuAlaSerAspLysArgGluLysIleGluAspAsnGlyAsnPheArgLeuPheLeu ATCCTGGCCTCTGACAAAAGAGAAAAGATAGAAGATAATGGCAACTTTAGACTTTTCTG 121 GluGlnIleHisValLeuGluLysSerLeuValLeuLysPheHisThrValArqAspGlu 181 GAGCAAATCCATGTCTTGGAGAAATCCTTAGTTCTTAAATTCCATACTGTAAGAGATGAA GluCysSerGluLeuSerMetValAlaAspLysThrGluLysAlaGlyGluTyrSerVal 241 GAGTGCTCGGAATTATCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTG ThrTyrAspGlyPheAsnThrPheThrIleProLysThrAspTyrAspAsnPheLeuMet 301 AlaHisLeuIleAsnGluLysAspGlyGluThrPheGlnLeuMetGlyLeuTyrGlyArg GCTCATCTCATTAACGAAAAGGATGGGGAAACCTTCCAGCTGATGGGGCTCTATGGCCGA 361 GluProAspLeuSerSerAspIleLysGluArgPheAlaGlnLeuCysGluLysHisGly 421 GAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACTATGTGAGAAGCATGGA IleLeuArgGluAsnIleIleAspLeuSerAsnAlaAsnArgCysLeuGlnAlaArgGlu 481 ATCCTTAGAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAA 541 **TGA**

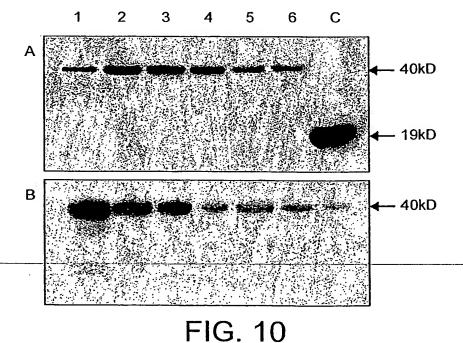
FIG. 7

GlyProLeuGlySerMetGluGlnLysLeuIleSerGluGluAspLeuThrMetGluAla 1 GGGCCCCTGGGATCCATGGAGCAGAACTCATCTCTGAAGAGGATCTGACCATGGAAGCT SerSerThrGlyArgAsnPheAsnValGluLysIleAsnGlyGluTrpHisThrIleIle 61 AGTTCTACGGGAAGGAACTTTAATGTAGAAAAGATTAATGGGGAATGGCATACTATTATC LeuAlaSerAspLysArgGluLysIleGluAspAsnGlyAsnPheArgLeuPheLeuGlu 121 CTGGCCTCTGACAAAAGAAAAGATAGAAGATAATGGCAACTTTAGACTTTTCTGGAG GlnIleHisValLeuGluLysSerLeuValLeuLysPheHisThrValArgAspGluGlu 181 CAAATCCATGTCTTGGAGAAATCCTTAGTTCTTAAATTCCATACTGTAAGAGATGAAGAG CysSerGluLeuSerMetValAlaAspLysThrGluLysAlaGlyGluTyrSerValThr 241 TGCTCGGAATTATCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTGACG TyrAspGlyPheAsnThrPheThrIleProLysThrAspTyrAspAsnPheLeuMetAla 301 TATGATGGATTCAATACATTTACTATACCTAAGACAGACTATGATAACTTTCTTATGGCT HisLeuIleAsnGluLysAspGlyGluThrPheGlnLeuMetGlyLeuTyrGlyArgGlu 361 CATCTCATTAACGAAAAGGATGGGGAAACCTTCCAGCTGATGGGGCTCTATGGCCGAGAA ProAspLeuSerSerAspIleLysGluArgPheAlaGlnLeuCysGluLysHisGlyIle 421 CCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACTATGTGAGAAGCATGGAATC LeuArgGluAsnIleIleAspLeuSerAsnAlaAsnArgCysLeuGlnAlaArgGlu*** CTTAGĂGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAATGA 481

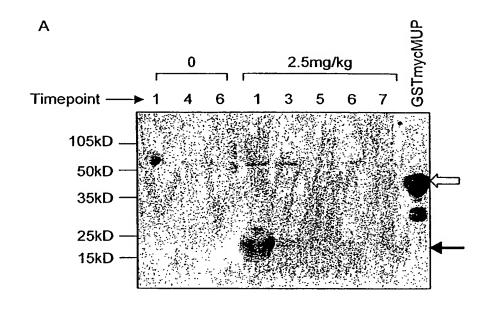
FIG. 8

GlyProLeuGlySerMetAlaIleIleValThrGlnThrMetLysGlyLeuAspIleGln 1 GGGCCCCTGGGATCCATGGCCATCATCGTCACCCAGACCATGAAAGGCCTGGACATCCAG LysValAlaGlyThrTrpHisSerLeuAlaMetAlaAlaSerAspIleSerLeuLeuAsp 61 AAGGTGGCGGGGACTTGGCACTCCTTGGCTATGGCGCCAGCGACATCTCCCTGCTGGAT AlaGlnSerAlaProLeuArgValTyrValGluGluLeuLysProThrProGluGlyAsn 121 GCCCAGAGTGCCCCCTGAGAGTGTACGTGGAGGAGCTGAAGCCCACCCCGAGGGCAAC LeuGluIleLeuLeuGlnLysTrpGluAsnGlyGluCysAlaGlnLysLysIleIleAla 181 CTGGAGATCCTGCTGCAGAĀATGGGAGAACGGCGAGTGTGCTCAGAĀGAĀGATTATTGCA GluLysThrLysIleProAlaValPheLysIleAspAlaLeuAsnGluAsnLysValLeu 241 GAAAAAACCAAGATCCCTGCGGTGTTCAAGATCGATGCCTTGAATGAGAACAAAGTCCTT ValLeuAspThrAspTyrLysLysTyrLeuLeuPheCysMetGluAsnSerAlaGluPro 301 GTGCTGGACACCGACTACAAAAAGTACCTGCTCTTCTGCATGGAAAACAGTGCTGAGCCC GluGlnSerLeuAlaCysGlnCysLeuValArgThrProGluValAspAsnGluAlaLeu 361 GAGCAAAGCCTGCCTGCCAGTGCCTGGTCAGGACCCCGGAGGTGGACAACGAGGCCCTG GluLysPheAspLysAlaLeuLysAlaLeuProMetHisIleArgLeuAlaPheAsnPro 421 GAGAAATTCGACAĀAGCCCTCAĀGGCCCTGCCCATGCACATCCGĞCTTGCCTTCAACCCG ThrGlnLeuGluGlyGlnCysHisValGluGlnLysLeuIleSerGluGluAspLeu*** ACCCAGCTGGAGGGĞCAGTĞCCACGTCGAGCAGAÃACTCATCTCTGAAGAGATCTGTAG 481

FIG. 9



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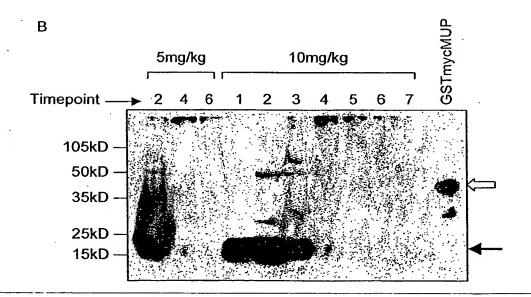
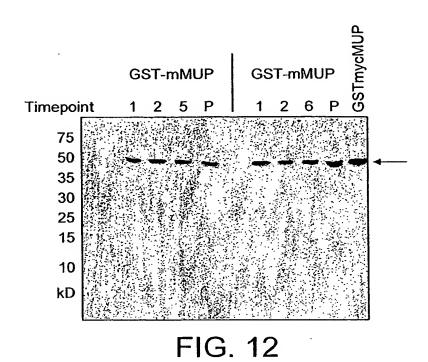


FIG. 11



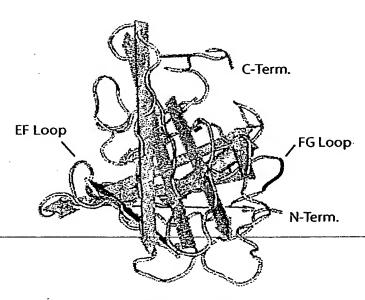


FIG. 13

SUBSTITUTE SHEET (RULE 26)

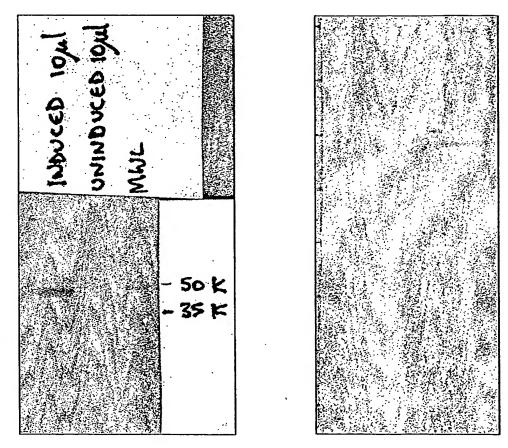


FIG. 14

		10 / 15	
+++++++++++++++++++++++++++++++++++++++	LUO METDTLLLWVLLLWVPGSTGDAAQPARRARTKLGTELGSM <u>EQKLISEEDL</u> TMEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFLEQIHVL METDTLLLWVLLLWVPGSTGDAAQPAKMLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFLEQIHVL METDTLLLWVLLLWVPGSTGDAAQPAKMLLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFLEQIHVL METDTLLLWVLLLWVPGSTGDAAQPAKMLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFLEQIHVL	200 EKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE EKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE EKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDKLGTGSSSEFNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE EKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDKLNVRFSTIVRRAEFNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE	269 RFAQLCEKHGILRENIIDLSNANRCLQARE
	2333	(101) (92) (92) (92)	(185) (176) (186) (192)
·	SmMUP SM SML SML100	101 SmMUP SM SML SML	201 SmMUP SM SML SML

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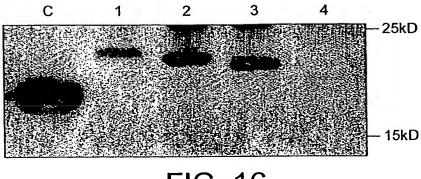


FIG. 16

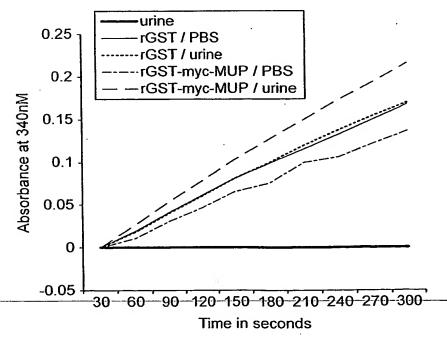


FIG. 17

FIG. 18

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FIG. 18 CONT'D

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14 / 15

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FIG. 19

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481	attaacgaaa	aggatgggga	aaccttccag	ctgatggggc	tctatggccg	agaaccagat
541	ttgagttcag	acatcaagga	aaggtttgca	caactatgtg	agaagcatgg	aatccttaga
601	gaaaatatca	ttgacctatc	caatgccaat	cactacctcc	aggcccgaga	atgaagaatg
661	gcctgagcct	ccagtgttga	gtggagactt	ctcaccagga	ctccaccatc	atcccttcct
721	atccatacag	catecccagt	ataaattctg	tgatctgcat	tccatcctqt	ctcactgaga
781	antccaatto	cagtetatee	acatgttacc	taggatacct	catcaagaat	caaagacttc
841	tttaaatttt	tetttgatat	acccatgaca	atttttcatq	aatttcttcc	tcttcctatt
				accettoacy		
901	caataaatga	ttacccttqc	actta			

FIG. 20

MKMLLLCLGLTLVCVHAEEASSTGRNFNVEKINGEWHTIILAS DKREKIEDNGNFRLFLEQIHVLENSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTY DGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKERFAQLCEKHG ILRENIIDLSNANRCLQARE

FIG. 21

```
ctgctgctgc tgtgtctgcg cctgacactg gtctgtggcc atgcagaaga agctagttcc
        acaagaggga acctcgatgt ggctaagctc aatggggatt ggttttctat tgtcgtggcc
61
        tctaacaaaa gagaaaagat agaagagaat ggcagcatga gagtttttat gcagcacatc
121
        gatgtcttgg agaattcctt aggcttcaag ttccgtatta aggaaaatgg agagtgcagg gaactatact tggtttccta caaaacgcca gaggatggtg aatattttgt tgagtatgac ggaggggaata catttactat acttaagaca gactactaca tatacgtcat gtttcatctc
181
241
301
         attaatttca agaacgggga aaccttccag ctgatggtgc tctacggcag aacaaaggat
361
         ctgagttcag acatcaagga aaagtttgca aaactatgtg aggcgcatgg aatcactagg
421
       gacaatatca ttgatctaac caagactgat cgctgtctcc aggcccgagg atgaagaaag gcctgagcct ccagtgctga gtggagactt ctcaccagga ctctagcatc accattcct gtccatggag catcctgaga caaattctgc gatctgatt ccatcctctg tcacagaaaa
481
5.4.1
601
        gtgcaatcct ggtctctcca gcatcttccc tagttaccca ggacaacaca tcgagaatta aaagctttct taaatttctc ttggccccac ccatgatcat tccgcacaaa tatcttgctc
661
721
         ttgcagttca ataaatgatt accettgcac ttt
781
```

FIG. 22

241												r Tr T TG		•			
281	Lys I	le ATT	Lys AAG	Gly GGC	Leu CTT	Val GTG	Gln CAA	Pro CCC	Thr ACT	Arg CGA	Leu CTT	Leu CTT	Leu TTG				
321	Glu T GAA T																
361	Asp G																
401	Gly I GGT T																
441	Asp V																
481	Ala A																
521	Arg A																
561	Ile A														•	•	
601	Glu '	Thr ACT	Leu CTC	Lys AAA	Val GTT	Asp GAT	Phe TTT	Leu CTT	Ser AGC	Lys AAG	Leu CTA	Pro CCT	Glu GAA				
641	Met 1																
681	Tyr 1																
721	Tyr 7	Asp GAC	Ala GCT	Leu CTT	Asp GAT	Val GTT	Val GTT	Leu TTA	Tyr TAC	Met ATG	Asp GAC	Pro CCA	Met ATG				
761	Cys :																
801	Arg CGT	lle ATT	Glu GAA	Ala GCT	lle ATC	Pro CCA	Gln CAA	lle ATT	Asp GAT	Lys AAG	Tyr TAC	Leu TTG	Lys AAA	Ser TCC			
841	Ser AGC	Lys AAG	Tyr TAT	Ile ATA	Ala GCA	Trp TGG	Pro CCT	Leu TTG	Gln CAG	Gly GGC	Trp TGG	Gln CAA	Ala GCC				
881	Thr ACG	Phe TTT	Gly GGT	Gly GGT	Gly GGC	Asp GAC	His CAT	Pro	Pro	Lys	Ser	Asp GAT	Leu CTG				
921					Gln CAG												

FIG. 23

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